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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/732,949	12/11/2003	Tieyu Zheng	P17134	9235
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INTEL CORE			DANG, PHUC T	
P.O. BOX 5326			ART UNIT	PAPER NUMBER
SANTA CLAR	LA, CA 95056-5326		<u> </u>	PAPER NOMBER
			2818	
			DATE MAILED: 03/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/732,949	ZHENG ET AL.				
Office Action Summary	Examiner	Art Unit				
·	PHUC T. DANG	2818				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 11 December 2003.						
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 11 December 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. Sec tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

DETAILED ACTION

Oath/Declaration

The oath/declaration filed on December 11, 2003 is acceptable. 1.

Specification

2. The specification has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

Claims 3-4 are objected to because of the following informalities: 3.

The limitation of claim 3 and 4 are similar. Correction is required.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

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4. Claim 5 is rejected under 35 U.S.C. 102 (b) as being anticipated by Toy et al. (U.S. Patent No. 5,982,038).

Toy et al. discloses a method of a method of manufacturing a TO can comprising:

placing a solder preform (43, Fig. 6) between a metal cover and an insulative base (10, Fig. 6) [col. 5, lines 15-25]; and

applying a current to the solder preform until the solder preform melts to seal a metal cover to the insulating base [col. 4, lines 50-54].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-2 and 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toy et al. (U.S. Patent No. 5,982,038) in view of Heschel (U.S. Patent No. 6,818,464).

Regarding claims 1 and 6, Toy et al. discloses a method of manufacturing an optoelectronic package having an insulating base with multiple conductive vias running through the insulating base, and having a metal cover that at least partially encloses an optoelectronic device mounted on the insulating base, the method comprising:

placing a solder preform (43, Fig. 6) between a metal cover and an insulative base (10, Fig. 6);

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applying pressure between the metal cover and the insulative base [col. 8, lines 44-56].

Toy et al. discloses all the features of the claimed invention as discussed above, but does not disclose applying a current to the solder preform until the solder preform melts to seal a metal cover to the insulating base.

Heschel, however, discloses applying a current to the solder preform until the solder preform melts to seal a metal cover to the insulating base [Fig. 7 and col. 10, lines 44-50].

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to modify the above teaching of Toy et al. as taught by Heschel for a purpose of improving an optoelectronic package process.

Regarding claims 2 and 7, Heschel discloses metalizing (707, Fig. 7) a top surface of the insulating base (702, Fig. 7) prior to the placing of the solder perform and creating a metallized surface (707, Fig. 7) on the insulating base (702, Fig. 7), wherein placing the solder preform between the metal cover and the insulating base further comprises placing the solder preform in contact with the metallized surface [col. 10, lines 47-53].

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to modify the above teaching of Toy et al. as taught by Heschel for a purpose of improving an optoelectronic package process.

6. Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toy et al. (U.S. Patent No. 5,982,038) in view of Ma et al. (U.S. Patent No. 6,709,898).

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Regarding claims 3-4, Toy et al. discloses all the features of the claimed invention as discussed above but does not disclose allowing the solder preform to cool; and removing the pressure between the metal cover and the insulating base.

Ma et al., however, discloses allowing the solder preform to cool; and removing the pressure between the metal cover and the insulating base [col. 7, lines 57-61].

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to modify the above teaching of Toy et al. as taught by Ma et al. for a purpose of improving the thermal characteristics.

Conclusion

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuc T. Dang whose telephone number is (571) 272-1776. The examiner can normally be reached on 8:00 am-5:00 pm.
- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and After Final communications.
- Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Phuc T. Dang

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Primary Examiner

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